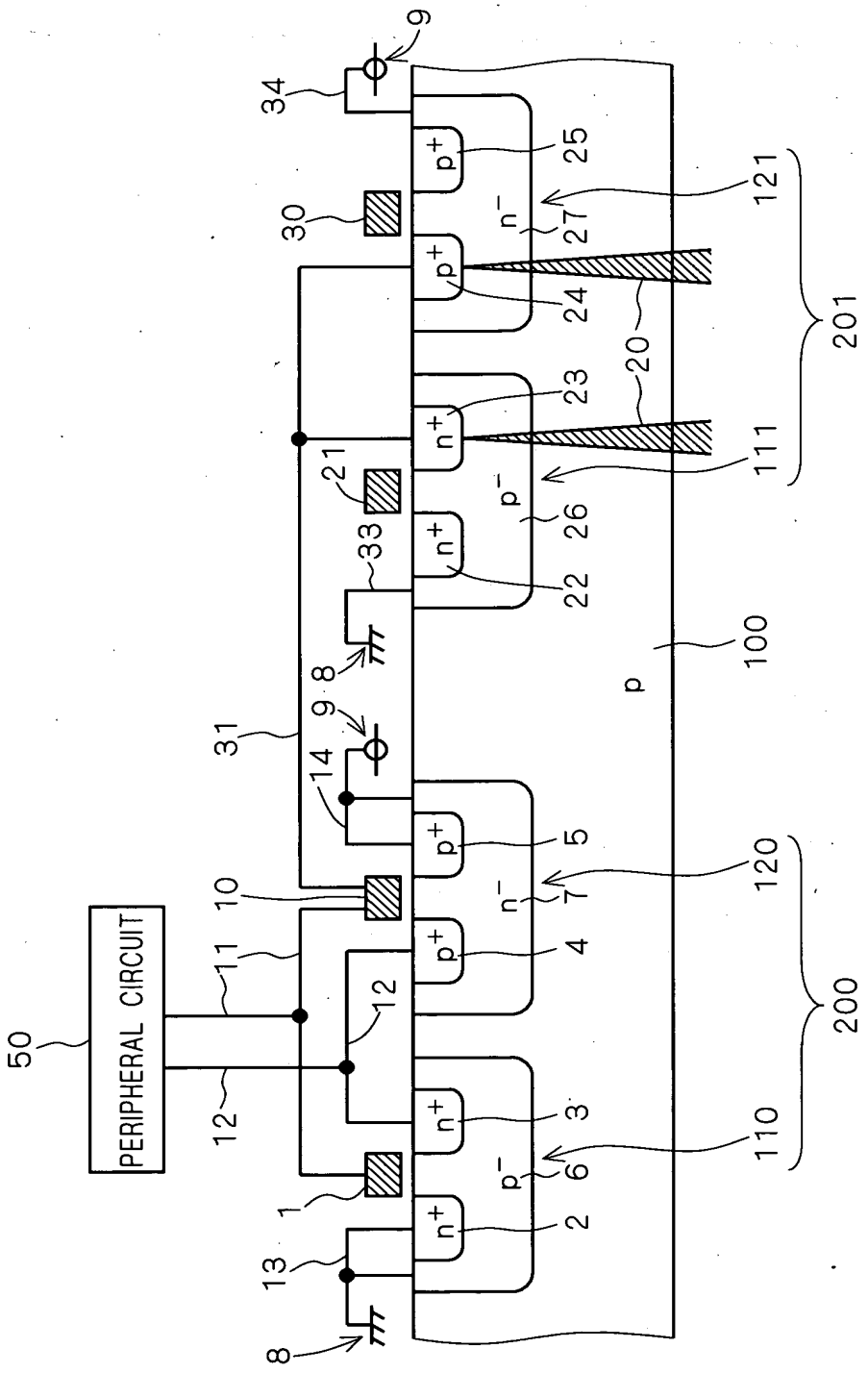
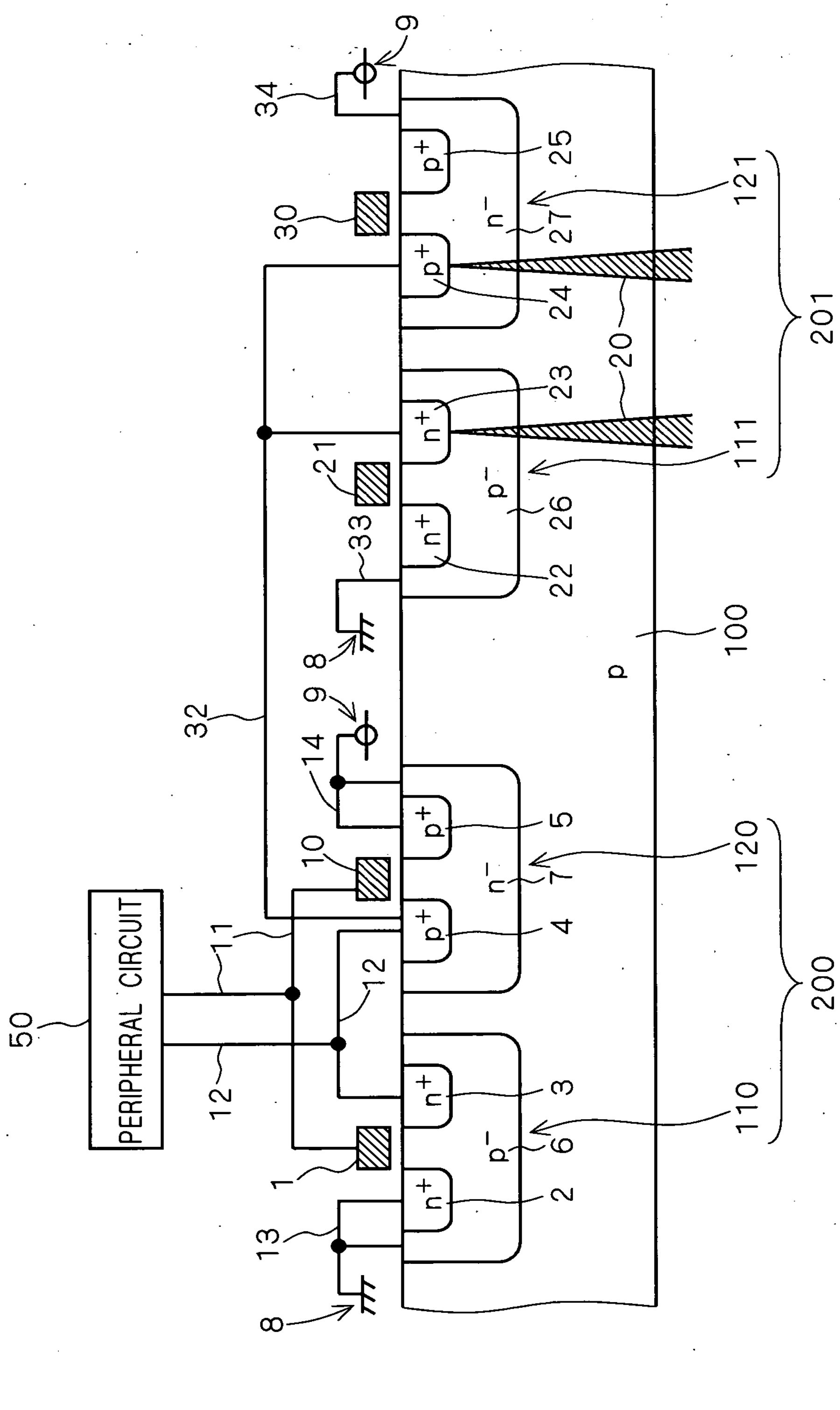
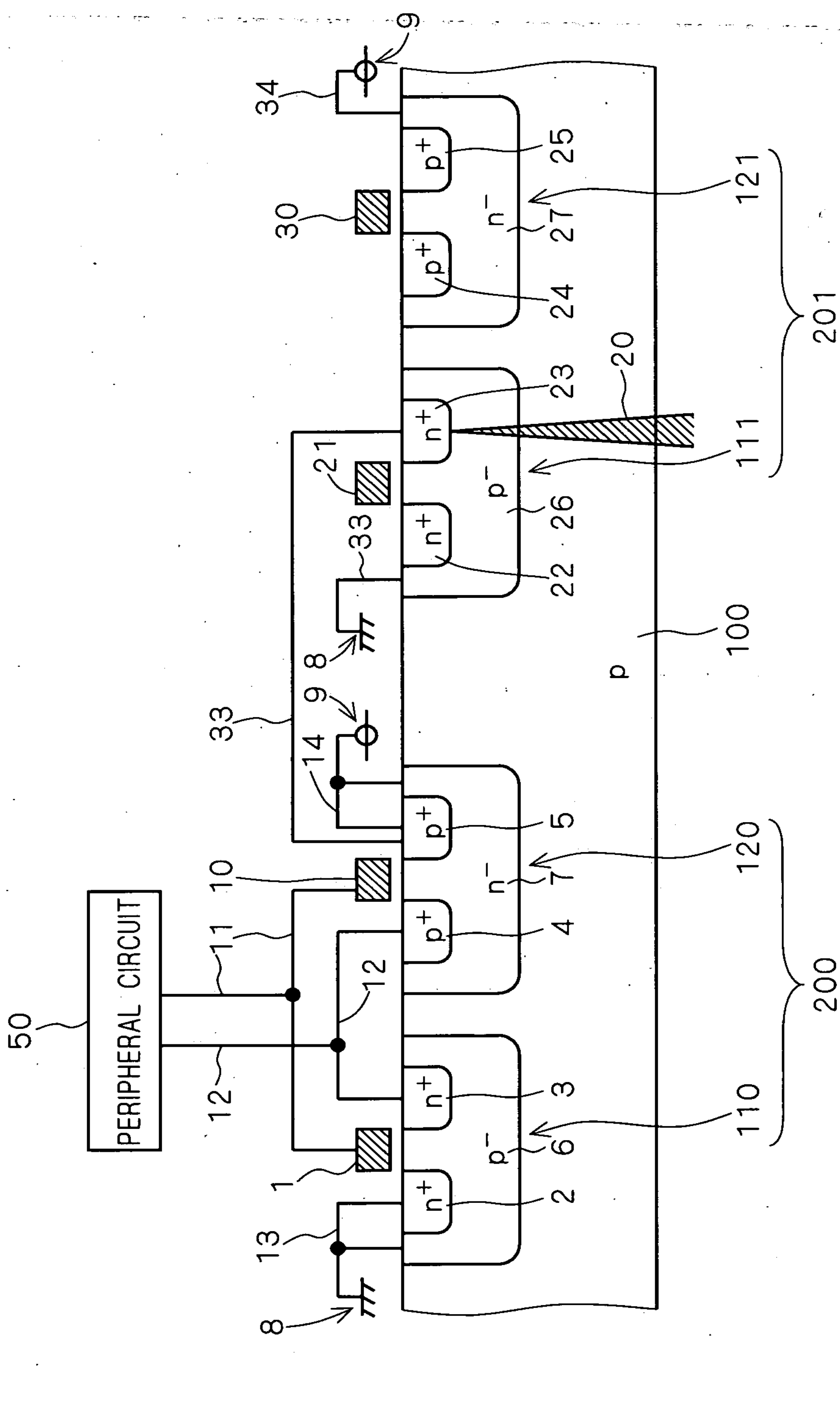


FIG. 1

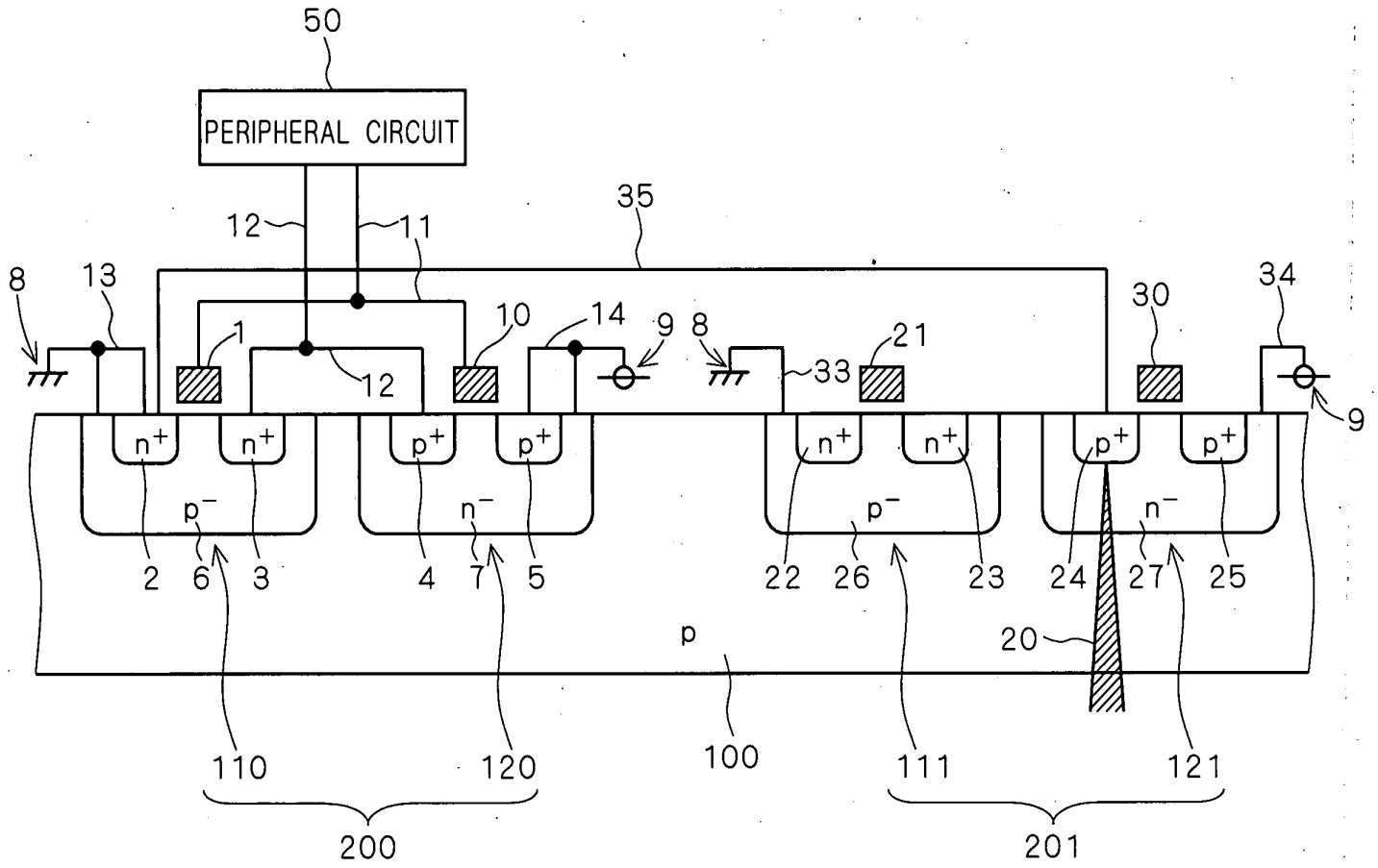

PERIPHERAL CIRCUIT
50
11
12
13
1
2
3
4
5
6
7
8
9
10
14
20
21
22
23
24
25
26
27
30
32
33
34
100
110
111
120
121
200
201
p
p−
n−
p+
n+

F / G. 2


PERIPHERAL CIRCUIT
50
1
2
3
4
5
6
7
8
9
10
11
12
13
14
20
21
22
23
24
25
26
27
30
33
34
100
110
111
120
121
200
201
n+
p+
n−
p−
p

F/G. 3

FIG. 4



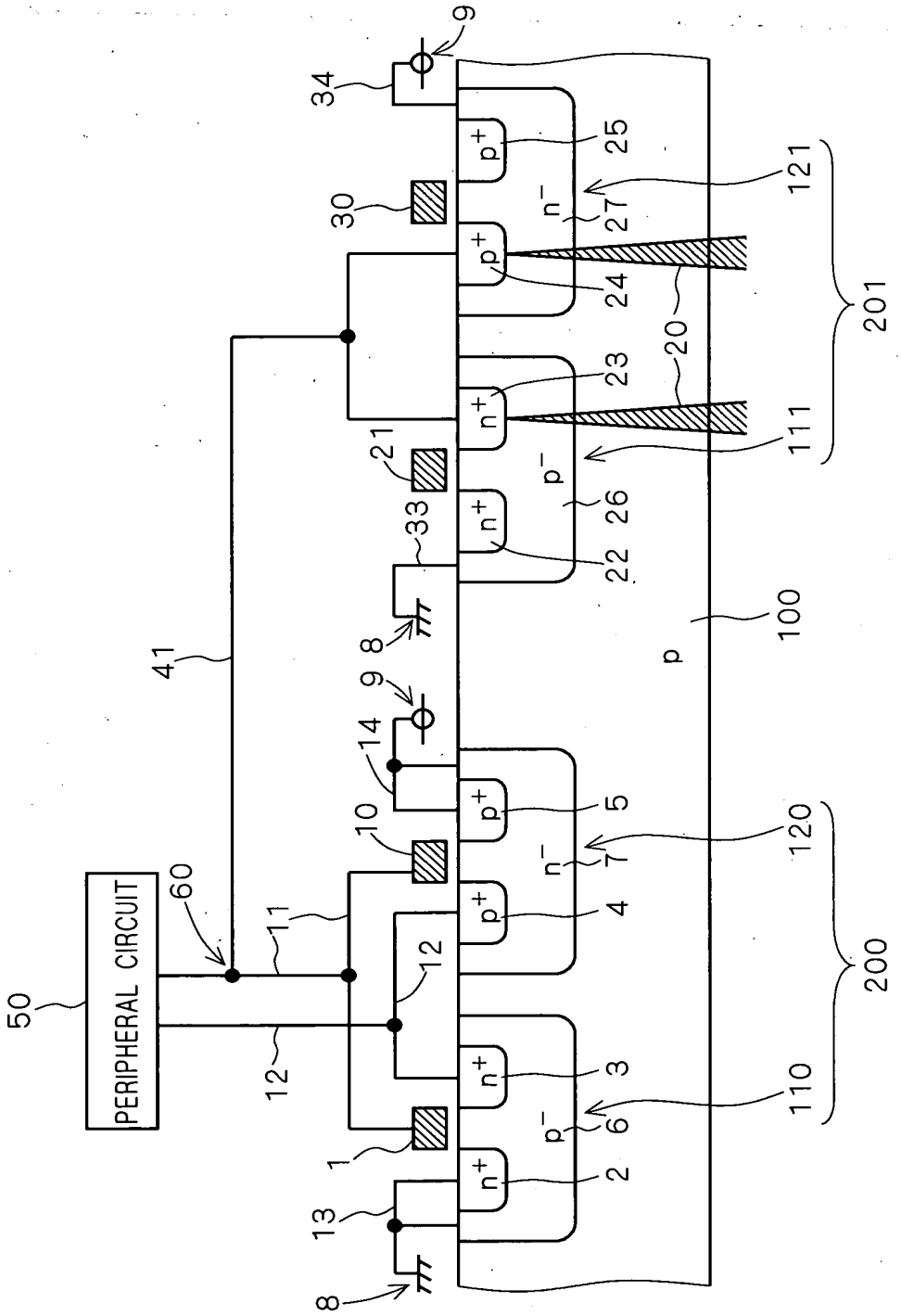


FIG. 5

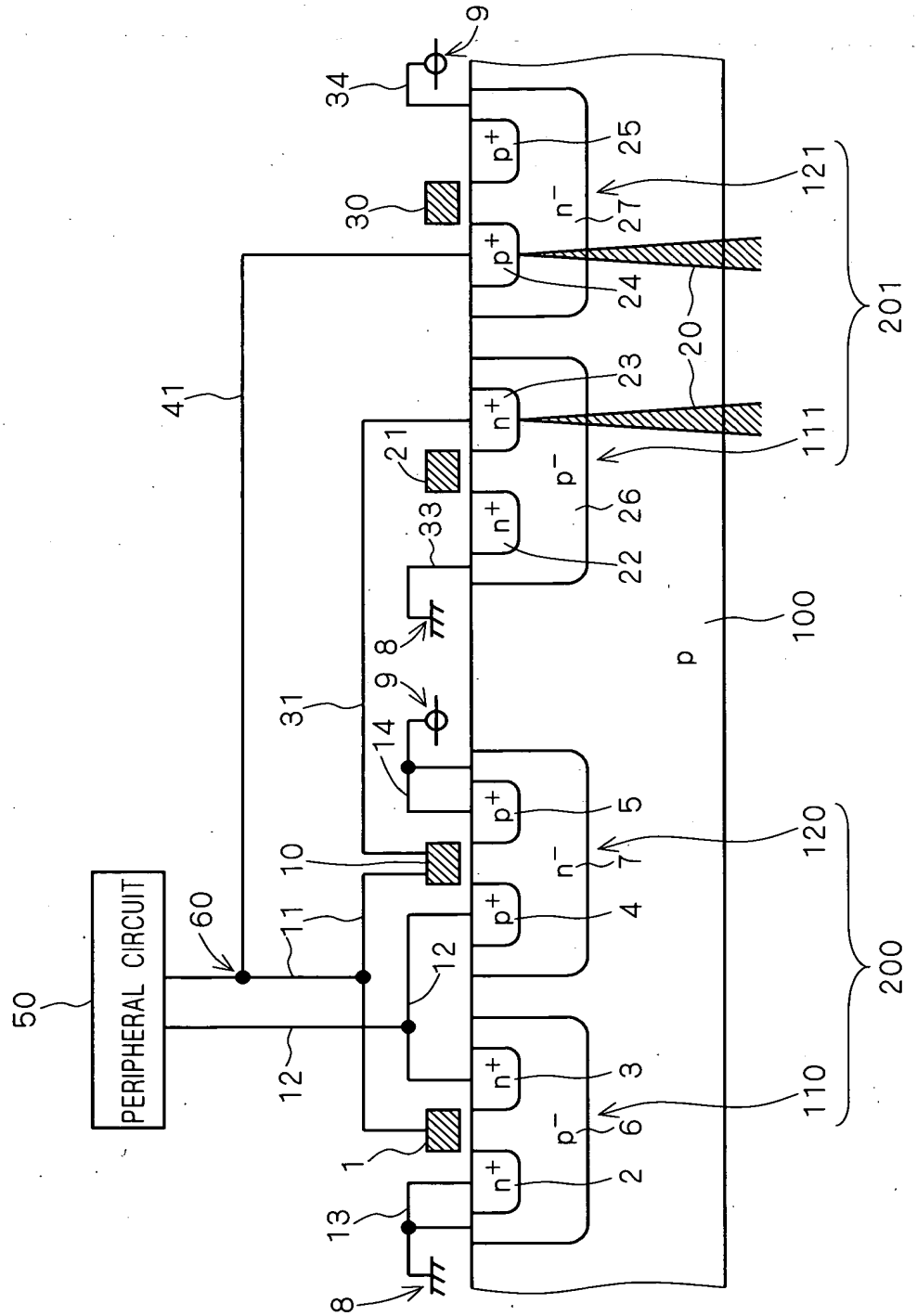
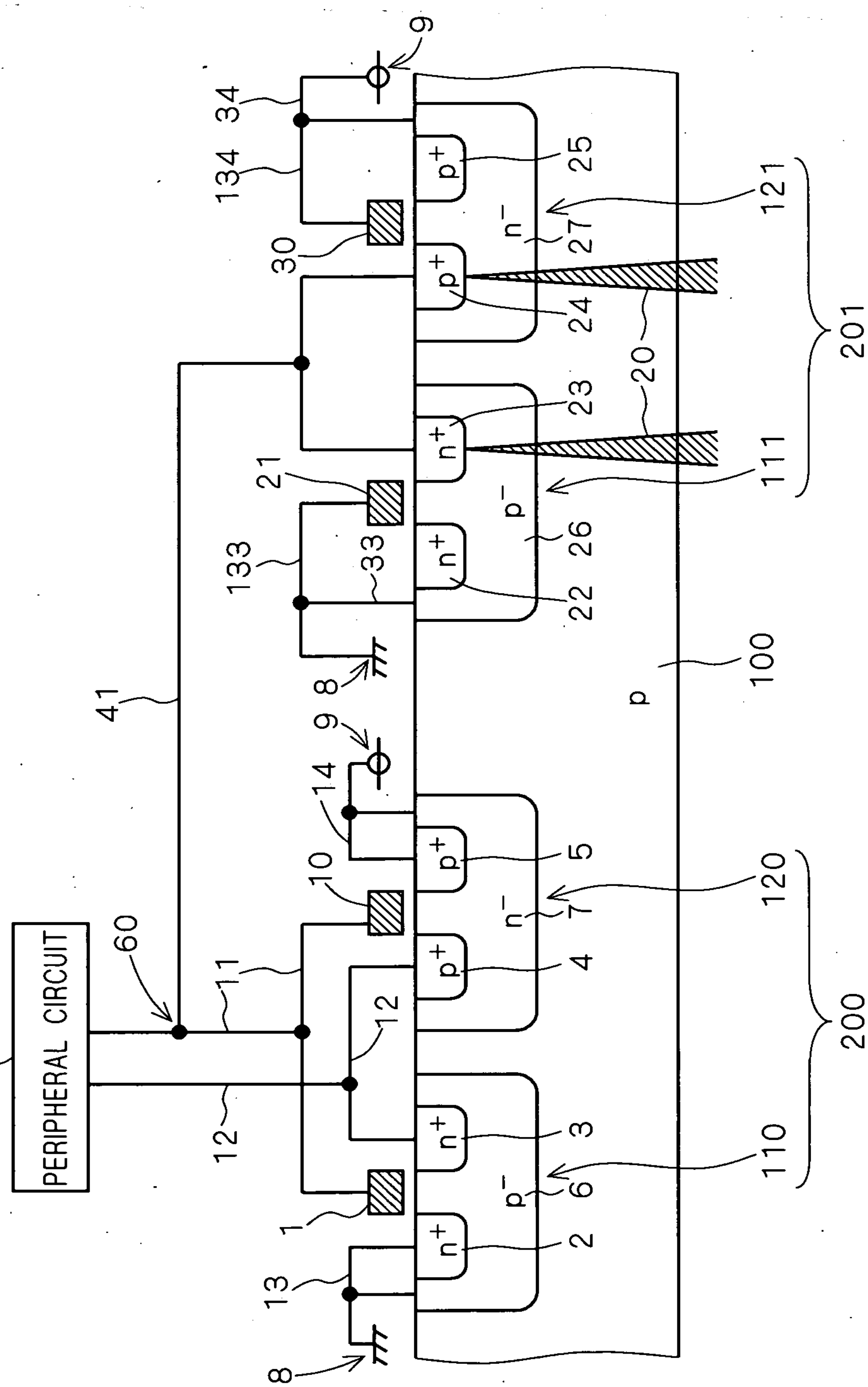


FIG. 6


PERIPHERAL CIRCUIT
50
60
41
11
12
13
1
2
3
4
5
6
7
8
9
10
14
20
21
22
23
24
25
26
27
30
33
34
100
110
111
120
121
133
134
200
201
p^+
n^+
p^-
n^-
p

F I G. 7

FIG. 8

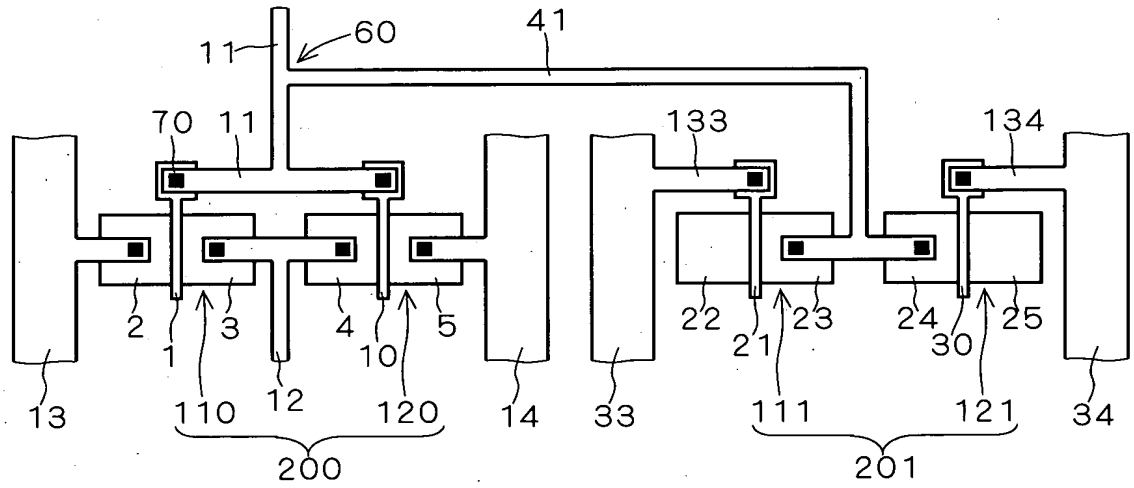


FIG. 9A

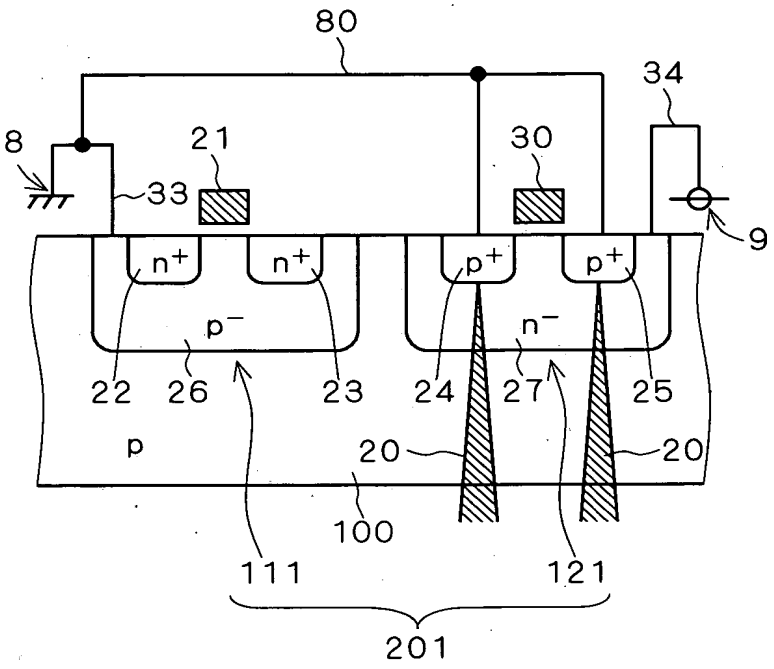

80
34
8
21
30
33
9
n+
n+
p+
p+
p−
n−
22
26
23
24
27
25
p
20
20
100
111
121
201

FIG. 9B

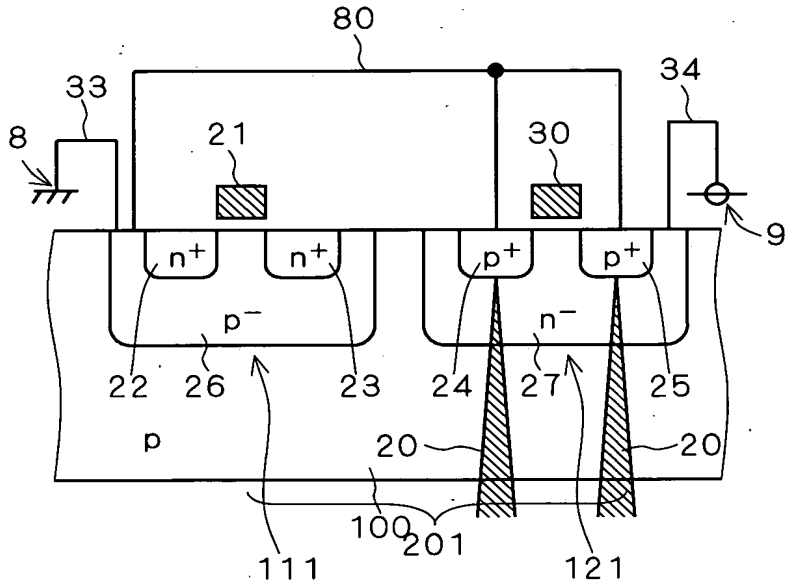

80
34
33
8
21
30
9
n+
n+
p+
p+
p−
n−
22
26
23
24
27
25
p
20
20
100
201
111
121

FIG. 10A

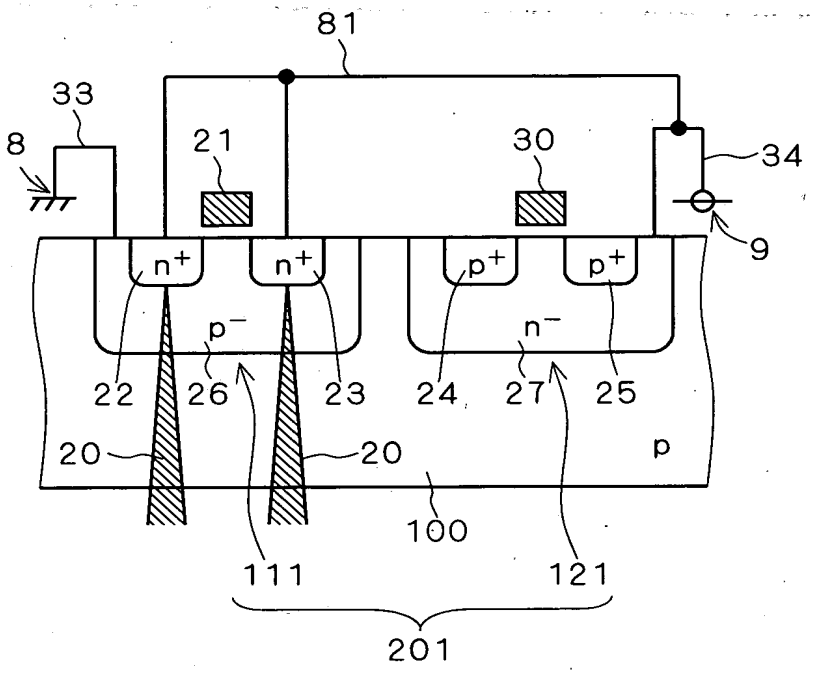


FIG. 10B

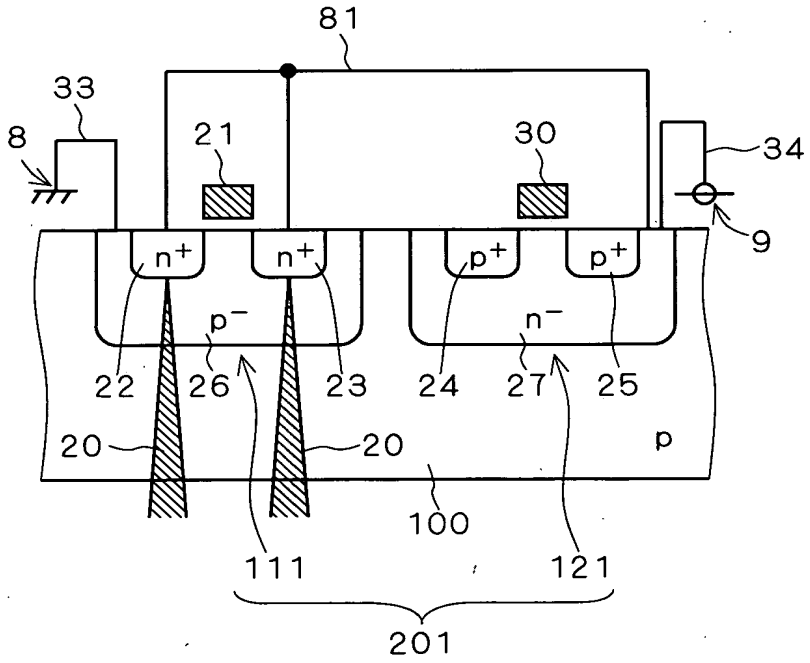
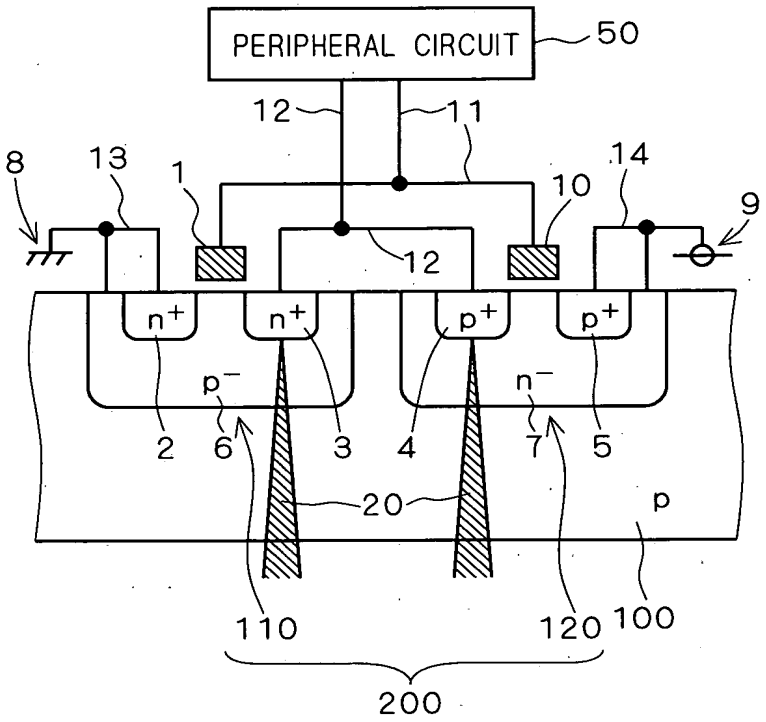


FIG. 11


PERIPHERAL CIRCUIT
50
12
11
8
13
1
10
14
9
12
n+
n+
p+
p+
p−
n−
2
6
3
4
7
5
20
p
110
120
100
200